

### **ABSTRACT OF THE DISLCOSURE**

A volume dataset describes at least one tubular vessel and its environment. For processing the volume dataset, an operating point is first defined. A computer then determines slice planes containing the operating point and a sectional area enclosed by the vessel and contained in the respective slice plane for each of the slice planes. Finally, the computer determines the slice plane with the minimum sectional area and determines a working slice plane on the basis of this slice plane.

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